

## BMW LSD installation instructions

- Measure back lash and bearing preload and mark the snap ring shims prior to removal so they can be reinstalled on the same side during reassembly
- Bolt ring gear to LSD @ 80 ft. lbs. torque (E92 LSD) or 70 ft. lbs. (E46 LSD)
- Press bearing races on LSD
- Install LSD with bearings into housing using the OEM shims
- Measure backlash (0.003 – 0.009 acceptable)
- Measure bearing preload (2-10 inch lbs. acceptable)
- Check with marking compound for acceptable gear pattern.
- To increase backlash add shim to position "B" with thinner snap ring "D"
- To decrease backlash add shim to position "C" with thinner snap ring "A"

\*If backlash needs adjustment, use shim kit installing shims under bearing races with thinner replacement snap ring. Note: the (A+B+C+D) shims + snap ring total thickness should equal the thickness of the old snap rings (A+C) being replaced (+/- 0.002)

